

F. E. RIEGGER.
TYPE WRITER ATTACHMENT.
APPLICATION FILED OCT. 29, 1908.

930,885.

Patented Aug. 10, 1909.

3 SHEETS—SHEET 1.

Fig 1

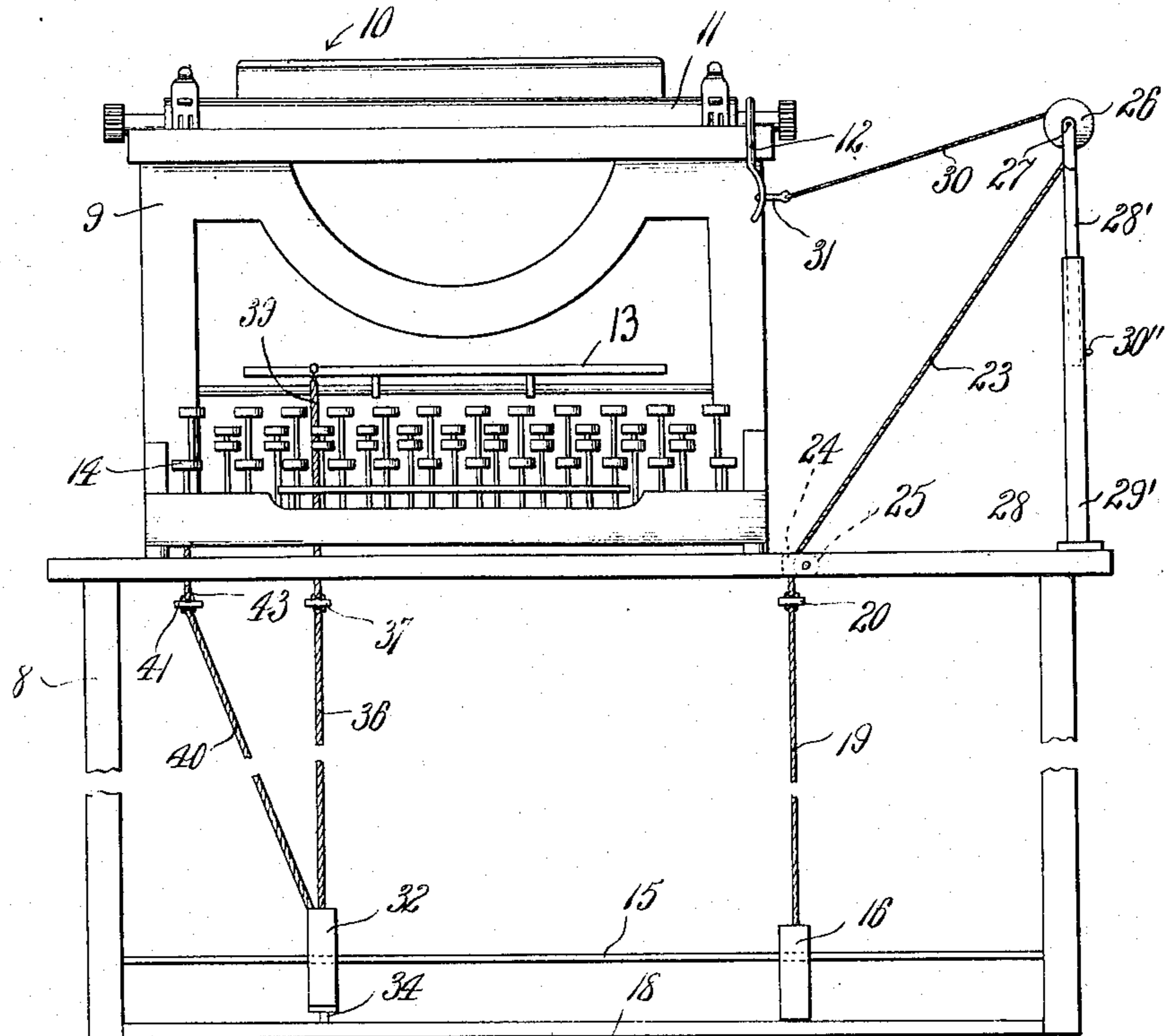
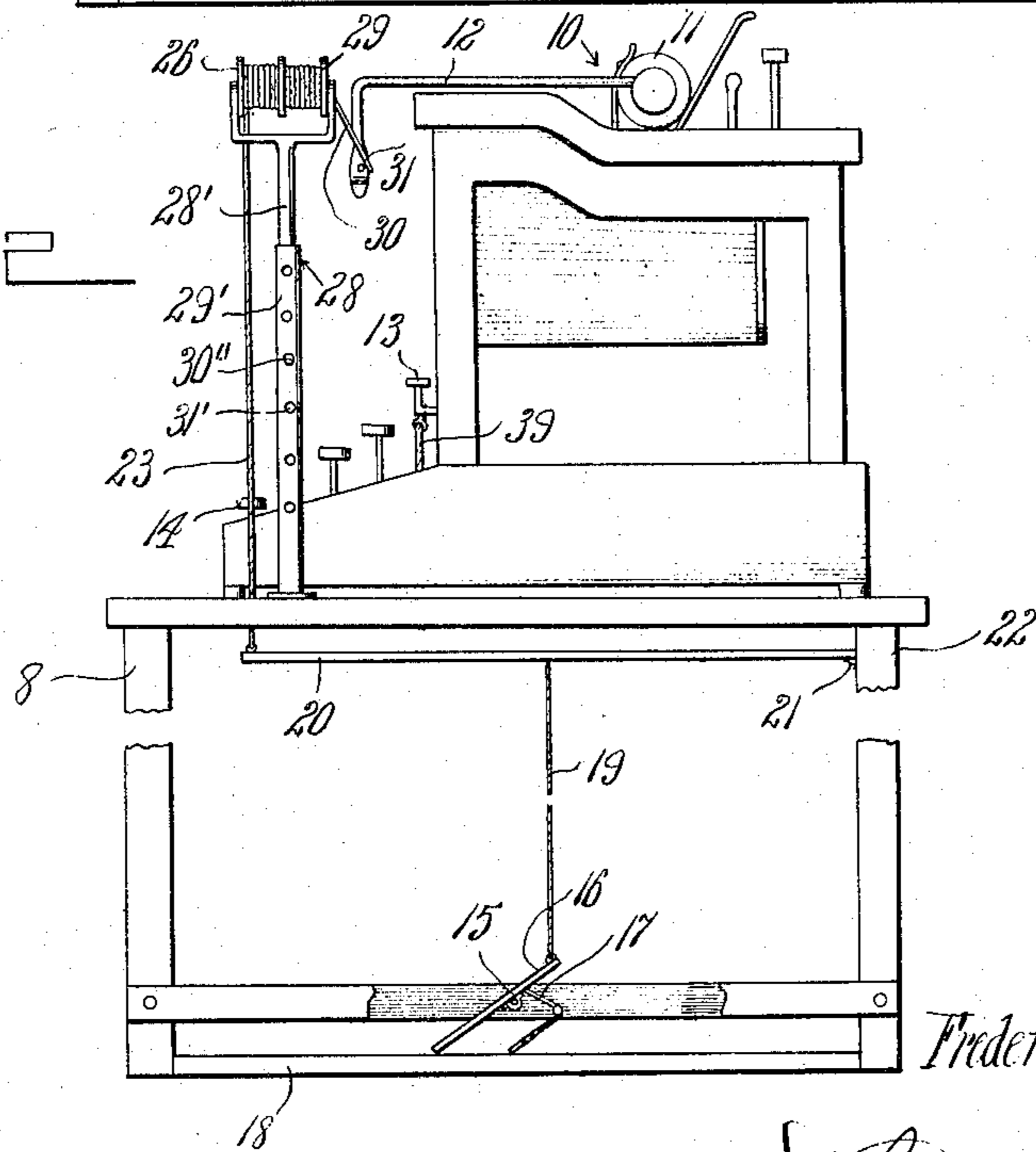


Fig 2



Witnesses
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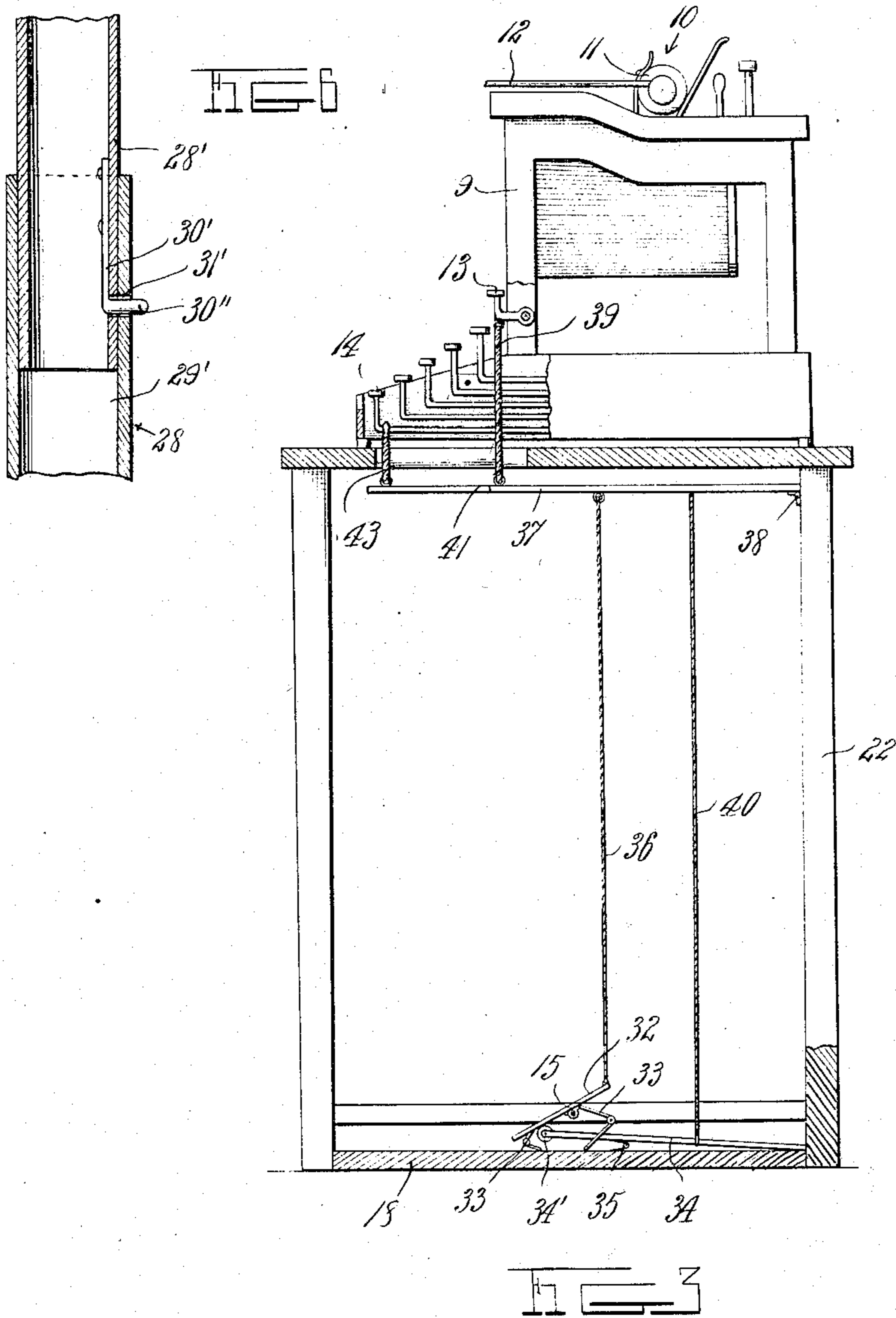
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3 SHEETS—SHEET 2.



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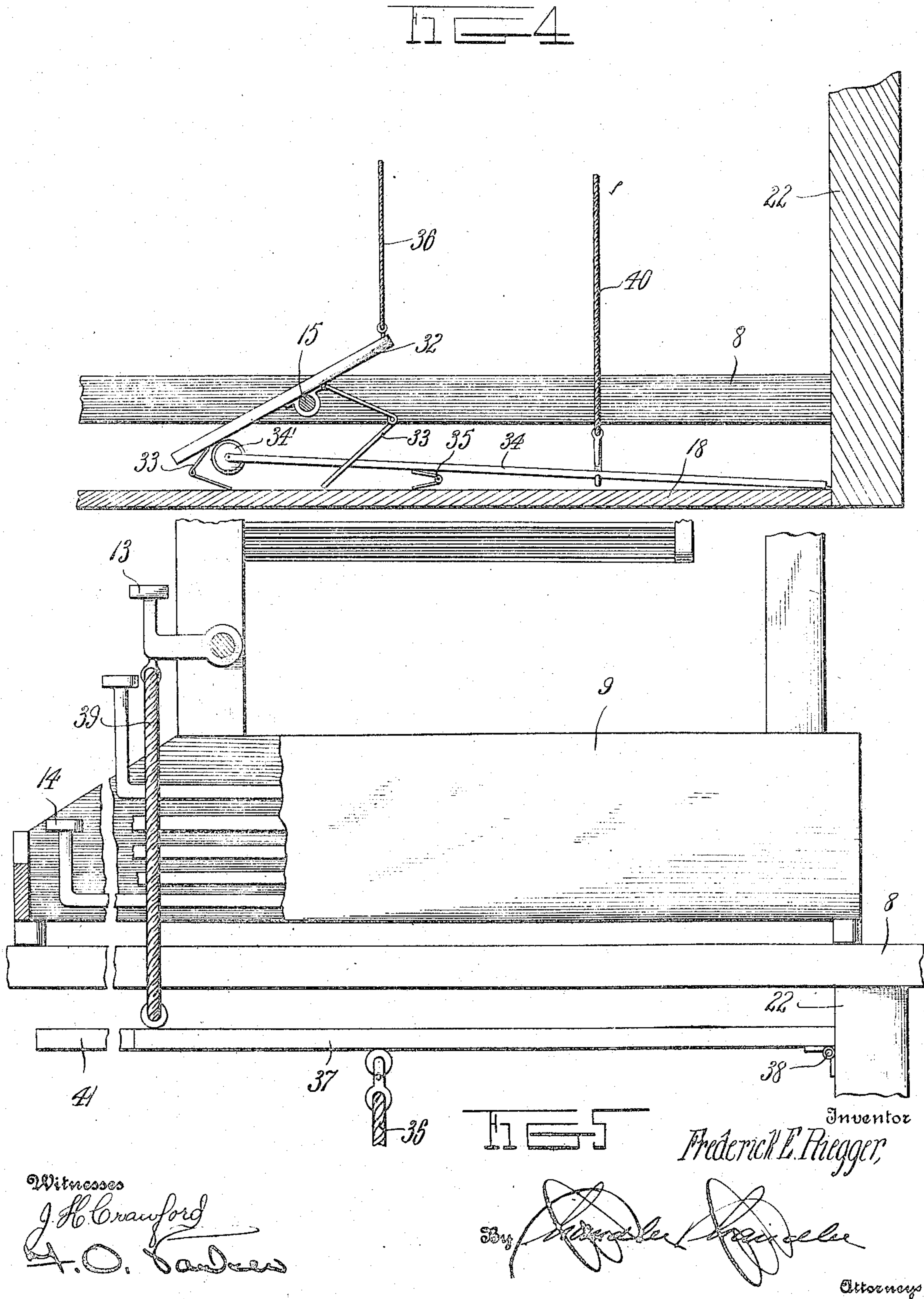
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3 SHEETS—SHEET 3.



UNITED STATES PATENT OFFICE.

FREDERICK E. RIEGGER, OF NEWARK, OHIO.

TYPE-WRITER ATTACHMENT.

No. 930,885.

Specification of Letters Patent.

Patented Aug. 10, 1909.

Application filed October 29, 1908. Serial No. 460,094.

To all whom it may concern:

Be it known that I, FREDERICK E. RIEGGER, a citizen of the United States, residing at Newark, in the county of Licking, State of Ohio, have invented certain new and useful Improvements in Type-Writer Attachments; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to a typewriter attachment and more particularly to the class of foot-actuating means for operating the shift key, tabular bar, and the spacing lever.

The primary object of the invention is the provision of a typewriter attachment comprising foot-operated mechanism for depressing the shift key, and the tabular bar, and for actuating the spacing lever of a typewriter of the ordinary construction, thus avoiding the necessity of manually operating these parts as is now done, and leaving the hands of the typist free at all times to manipulate the keys of the typewriter.

In the drawings accompanying and forming a part of this specification is illustrated one form of embodiment of the invention which to enable those skilled in the art to practice said invention will be set forth at length in the following description, while the novelty of the invention will be included in the claims succeeding said description. However, it is to be understood that minor changes, variations and modifications may be made such as come properly within the scope of the claims hereunto appended without departing from the spirit of the invention.

In the drawings: Figure 1 is a front elevation of a typewriter stand, typewriter and the invention applied thereto. Fig. 2 is a side view looking toward one end thereof and partly in section. Fig. 3 is a similar view with the typewriter stand in section, and the typewriter partly broken away. Fig. 4 is a fragmentary vertical sectional view in side elevation of one pedal mechanism. Fig. 5 is a vertical sectional view in side elevation of the tabular bar and its pedal operating mechanism connected therewith. Fig. 6 is a fragmentary vertical sectional view of the stand and means for locking the same.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring more particularly to the drawings, the numeral 8 designates in a general manner, a typewriter stand of the ordinary construction, and 9 at typewriter of conventional form having the usual shifting carriage 10, platen or roller 11 mounted thereon, spacing and resetting lever 12, tabular bar 13, and shift key 14, which are common parts of the ordinary typewriter structure. Journaled in the lower part of the typewriter stand 8 and extending transversely centrally between the legs thereof is a rocking shaft or axle 15 forming the axis for a treadle 16, the same being held in a normal inclined position by a spring member 17, the latter having its bearing against the under face of the treadle at its innermost end and against the upper face of a base board 18 disposed below the said axle 15 and connected to the legs of the stand.

Connected to the inner end of the treadle 16 is a cord 19, the latter detachably connected centrally to a hinged lever 20, which is pivotally connected at its rearmost end as at 21 to the rear walls 22 of the typewriter stand 8, the forward free end of the said hinged lever having fastened thereto one end of a cord 23 which passes up through an opening 24 formed in the stand top in which opening is mounted an anti-friction roller 25 against which works the said cord. The other end of this cord is connected to a winding drum 26 journaled upon an axle 27 fixed to an adjustable bracket arm or standard 28, the latter being mounted at one end of the typewriter stand. Upon the shaft or axle 27 and integral with the drum 26 is a drum 29 having fixed thereto one end of a cable or cord 30 which is adapted to be reversely wound thereon with respect to the winding of the said cord 23 and its opposite end carries a hook 31 to detachably connect the same to the spacing and resetting lever 12 of the typewriter. The said standard is constructed of a pair of telescoping tubes 28' and 29' and the former tube has a spring latch 30' provided with a lug 30'' adapted for engagement in openings 31' formed in the tube 29' so that the said standard can be lengthened or shortened as the occasion may demand.

From the foregoing, it will be apparent that the carriage 10 can be readily returned to its initial starting position, subsequent to its movement across the typewriter, by the mere depression of the treadle 16, the move-

ment of the treadle pulling upon the cord 23 so as to unwind the same from its drum and at the same time, to cause the cord 30 to be wound upon the drum 29, the unwinding of the latter cord having the effect of resetting the carriage, owing to the connection of said cord to the lever 12. During the initial movement of the lever 12 which is effected as above described, the roller or platen 11 will be turned the desired number of spaces, as set by the spacing regulator, owing to the fact that the drums 26 and 29 are located at a point sufficiently high above said lever to permit the curved or handle end of the latter to be raised. Spacing may thus be effected by the depression of the treadle 16.

On the axle 15 is mounted a foot treadle 32 having below its toe and heel portions, depressible resetting springs 33 to normally hold said treadle in an inclined position. Each resetting spring has one of its ends bearing against the under face of the treadle, while its opposite end bears against the base board 18. Beneath the heel portion of the treadle 32 extends the forward end of a supplemental treadle 34 which carries at said end a friction wheel 34' and is pivoted at its rear end to the base board. The front end of this treadle is held normally in raised position, with the roller 34' in contact with the under face of the treadle 32 by means of a spring 35.

Connected to the foot treadle 32 at its toe portion is a cord 36, the same also detachably connected centrally of a hinged lever 37 pivoted as at 38 to the rear wall 22 of the typewriter stand and which lever has connection at its forward end through the medium of a cord 39 with the tabular bar 13 of the typewriter. Connected to the supplemental treadle 34 is a cord 40, the latter being also detachably connected to a hinged lever 41 which has its rear end pivoted to the rear wall 22 of the stand 8 said lever having its forward end connected through the medium of a cord 43 with the capital shift key lever 14 of the typewriter.

To operate the tabular bar 13, the toe portion of the treadle is depressed by the foot of the typist so as to pull upon the cord 36 and thus swing the hinged lever 37 downwardly, the cable connection 39 between said lever and the bar effecting the actuation of the latter during the movement of the

lever. The actuation of the bar will in turn shift the carriage in the manner known as "jump space", for the tabulation of bills or accounts. When the shift key is to be actuated, the heel portion of the treadle is depressed, so as to act upon the supplemental treadle 34, the depression of the last mentioned treadle exerting a downward pull upon the cord 40, and thus lowering the hinged lever 41, thereby pulling downwardly upon the cord 43 with which the shift key is connected.

It is obvious that the parts of the attachment are detachable to permit the folding of the typewriter stand should it be of this type.

What is claimed is:—

1. The combination with a tabular bar and a shift key, of a treadle operatively connected with said bar; and a second treadle operatively connected with said key and arranged for actuation by the first treadle.

2. The combination with a carriage-resetting lever, a tabular bar, and a shift key, of a treadle operatively connected with said lever; a second treadle operatively connected with said bar; and a third treadle operatively connected with said key and arranged for actuation by the second treadle.

3. The combination with a shift key and a tabular bar, of a rock shaft; a treadle secured intermediate its ends to said shaft; a spring arranged to bear against each end of the treadle; a treadle pivoted at one end and having the other end arranged to extend beneath the first mentioned treadle; means for normally holding the last mentioned end of the second treadle in contact with the under face of the first mentioned treadle adjacent one end of the latter; and connecting devices between the other end of the first mentioned treadle and said bar, and between the second treadle and said key, whereby said bar will be operated when one end of the first mentioned treadle is depressed, and the second treadle will be depressed to operate said key when the other end of the first mentioned treadle is depressed.

In testimony whereof, I affix my signature, in presence of two witnesses.

FREDERICK E. RIEGGER.

Witnesses:

C. G. NEVINS,
WM. W. NEAL.